DOCKET: **TUC920010098US1**

TIMING BASED SERVO WITH FIXED DISTANCES BETWEEN TRANSITIONS

ABSTRACT

A servo writer generates a linear servo track timing based servo pattern comprised of transitions that extend laterally of

5 the track. At least three spaced apart write elements, two of parallel azimuthal orientation, and at least one of a different azimuthal orientation, write patterns corresponding to the write elements, fixing both the distance between transitions having different azimuthal orientation, the "A" distance, and the

10 distance between transitions having parallel azimuthal orientation, the "B" distance. The fixed distances provide precise sensing of lateral position based on a measure of time over the "A" distance compared to time over the "B" distance.